

REQUEST FOR QUOTATIONS  
(THIS IS NOT AN ORDER)

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THE NOTICE OF SMALL BUSINESS-SMALL PURCHASE SET-ASIDE ON PAGE 1A OF THIS FORM  
[X] IS [ ] IS NOT APPLICABLE.

1. REQUEST NO. DTRS57-00-Q-80026	2. DATE ISSUED 04/25/00	3. REQUISITION/PURCHASE REQUEST 874-3448
8. TO: NAME AND ADDRESS, INCLUDING ZIP CODE		4. CERT. FOR NAT. DEF UNDER BDSA REG. 2 AND/OR DMS REG. 1
5A. ISSUED BY U.S. DEPARTMENT OF TRANSPORTATION VOLPE NATIONAL TRANSPORTATION SYSTEMS CENTER KENDALL SQUARE CAMBRIDGE, MA 02142-1093		6. DELIVERY BY (DATE) 07/31/00
5B. FOR INFORMATION CALL:  ROBERT M. NICKERSON ,DTS-87 TEL: (617)494-3432		7. DELIVERY [X] FOB [ ] OTHER DEST. (SEE SCHEDULE)
10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICER ON OR BEFORE CLOSE OF BUSINESS (DATE) 05/17/00		9. DESTINATION (CONSIGNEE AND ADDRESS, INCLUDING ZIP CODE)  CAMBRIDGE, MA 02142-1093
11. BUSINESS CLASSIFICATION (CHECK APPROPRIATE BOXES) A. STANDARD INDUSTRIAL CLASSIFICATION CODE _____ B. SMALL BUSINESS SIZE STANDARD _____ [ ] SMALL [ ] OTHER THAN SMALL [ ] WOMEN-OWNED [ ] DISADVANTAGED		
IMPORTANT: THIS IS A REQUEST FOR INFORMATION, AND QUOTATIONS FURNISHED ARE NOT OFFERS. IF YOU ARE UNABLE TO QUOTE, SO INDICATE ON THIS FORM AND RETURN IT. THIS REQUEST DOES NOT COMMIT THE GOVERNMENT TO PAY ANY COSTS INCURRED IN THE PREPARATION OF THE SUBMISSION OF THIS QUOTATION OR TO CONTRACT FOR SUPPLIES OR SERVICES. SUPPLIES ARE OF DOMESTIC ORIGIN UNLESS OTHERWISE INDICATED BY QUOTER. ANY REPRESENTATION AND/OR CERTIFICATION ATTACHED TO THIS REQUEST FOR QUOTATION MUST BE COMPLETED BY THE QUOTED.		
DISCOUNT FOR PROMPT PAYMENT: 10 CALENDER DAYS 20 CALENDER DAYS 30 CALENDER DAYS CALENDER DAYS %   %   %   %		
NOTE: PAGE 1A MUST BE COMPLETED BY THE QUOTER.		
14. NAME AND ADDRESS OF QUOTER (STREET, CITY, STATE AND ZIP CODE)		15. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION
16. DATE OF QUOTATION		17. NAME AND TITLE OF SIGNER (TYPE OR PRINT)
18. TELEPHONE NO. (INCLUDE AREA CODE)		

## REPRESENTATIONS, CERTIFICATIONS, AND PROVISIONS

The following representation applies when the contract is to be performed inside the United States, its territories or possessions, Puerto Rico, the Trust Territory of the Pacific Islands, or the District of Columbia.

## 52.219.1 SMALL BUSINESS PROGRAM REPRESENTATION (Jan 97)

(A)(1) The standard industrial classification (SIC) code for this acquisition is \_\_\_\_\_.

(2) The small business size standard is \_\_\_\_\_.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(B) Representations. (1) The offeror represents and certifies as part of its offer that it [ ] is, [ ] is not a small business concern.

(2) (Complete only if offeror represented itself as a small concern in block (b)(1) of this section.) The offeror represents as part of its offer that it [ ] is, [ ] is not a small disadvantaged business concern.

(3) (Complete only if offeror represented itself as a small concern in block (b)(1) of this section.) The offeror represents as part of its offer that it [ ] is, [ ] is not a women-owned small disadvantaged business concern.

(C) Definitions.

'Joint venture,' for purposes of a small disadvantaged business (SDB) set-aside or price evaluation preference (as prescribed at 13 CFR 124.321) is a concern that is owned and controlled by one or more socially and economically disadvantaged individuals entering into a joint venture agreement with one or more business concerns and is considered to be affiliated for size purposes with such other concern(s). The combined annual receipts or employees of the concerns entering into the joint venture must meet the applicable size standard corresponding to the SIC code designated for the contract. The majority of the venture's earnings must accrue directly to the socially and economically disadvantaged individuals in the SDB concern(s) in the joint venture. The percentage of the ownership involvement in a joint venture by disadvantaged individuals must be at least 51 percent.

## REPRESENTATIONS, CERTIFICATIONS, AND PROVISIONS (continued)

'Small business concern,' as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and the size standard in paragraph (a) of this provision.

'Small disadvantaged business concern,' as used in this provision, means a small business concern that (1) is at least 51 percent unconditionally owned by one or more individuals who are both socially and economically disadvantaged, or a publicly owned business having at least 51 percent of its stock unconditionally owned by one or more socially and economically disadvantaged individuals, and (2) has its management and daily business controlled by one or more such individuals. This term also means a small business concern that is at least 51 percent unconditionally owned by an economically disadvantaged Indian tribe or Native Hawaiian Organization, or a publicly owned business having at least 51 percent of its stock unconditionally owned by one or more of these entities, which has its management and daily business controlled by members of an economically disadvantaged Indian tribe or Native Hawaiian Organization, and which meets the requirements of 13 CFR Part 124.

'Women-owned small business concern,' as used in this provision, means a small business concern-

(1) Which is at least 51 percent owned by one or more women or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and

(2) Whose management and daily business operations are controlled by one or more women.

(D) Notice. (1) If this solicitation is for supplies and has been set aside, in whole or in part, for small business concerns, then the clause in this solicitation providing notice of the set-aside contains restrictions on the source of the end items to be furnished.

(2) Under 15 U.S.C 645(d) any person who misrepresents a firm's status as a small or small disadvantaged business concern in order to obtain a contract to be awarded under the preference programs established pursuant to section 8(A), 8(D), 9, or 15 of the Small Business Act or any other provision of Federal law that specifically references section 8(D) for a definition of program eligibility shall-

(i) Be punished by imposition of fine, imprisonment, or both:

(ii) Be subject to administrative remedies, including suspension and debarment; and

(iii) Be ineligible for participation in programs conducted under the authority of the Act

NAME OF OFFEROR OR CONTRACTOR

12. SCHEDULE (INCLUDE APPLICABLE FEDERAL, STATE AND LOCAL TAXES)

ITEM NO (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
1	<p>REPAIRS TO WATER VAULT, BUILDING 1.</p> <p>ATTACHED ARE THE PLANS AND SPECIFICATIONS FOR THE REPAIRS TO A WATER METER VAULT LOCATED NEAR BUILDING # 1.</p> <p>THE FOLLOWING CLAUSE ALSO APPLIES TO THIS RFQ:</p> <p>FAR CLAUSE 52.236-27 SITE VISIT CONSTRUCTION). ALTERNATE I (FEB 1995) (A) THE CLAUSES AT 52.235-2, DIFFERING (A) THE CLAUSES AT 52.236-2, DIFFERING SITE CONDITIONS, AND 52.236-3, SITE INVESTIGATIONS AND CONDITIONS AFFECTING THE WORK, WILL BE INCLUDED IN ANY CONTRACT AWARDED AS A RESULT OF THIS SOLICITATION. ACCORDINGLY, OFFERORS OR QUOTERS ARE URGED AND EXPECTED TO INSPECT THE SITE WHERE THE WORK WILL BE PERFORMED.</p> <p>(B) AN ORGANIZED SITE VISIT HAS BEEN SCHEDULED FOR WEDNESDAY, MAY 3, 2000 AT 10:00 AM WITH STEPHEN COFFEY (FACILITY ENGINEER 617-494-3919).</p> <p>(C) PARTICIPANTS WILL MEET IN THE LOBBY OF THE VOLPE CENTER, 55 BROADWAY, CAMBRIDGE, MA. 02142.</p> <p>THE CLOSING DATE FOR THE SUBMISSION OF A REQUEST FOR QUOTE IS MAY 17, 2000.</p> <p>THE CONTRACTOR MUST AGREE TO THE TIME TABLE ESTABLISHED ON THE SPECIFICATIONS AND PLANS. ALL WORK MUST BE COMPLETE WITHIN NINETY DAYS OF AWARD OF THE CONTRACT.</p> <p>THE DAVIS-BACON ACT APPLIES TO THIS QUOTATION AND THE CONTRACTOR IS REQUIRED TO PAY THE PREVAILING WAGE RATE AND FRINGE BENEFITS IN EFFECT AT THE TIME</p>	1	JOB	\$	\$

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NAME OF OFFEROR OR CONTRACTOR

## 12. SCHEDULE (INCLUDE APPLICABLE FEDERAL, STATE AND LOCAL TAXES)

ITEM NO (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>THE WORK IS BEING PERFORMED. A WEEKLY SUMMARY OF PAY FOR EACH EMPLOYEE COVERED UNDER THIS ACT WILL BE SUBMITTED TO ROBERT NICKERSON, DTS-87, 55 BROADWAY CAMBRIDGE, MA. 02142. SEE ATTACHMENT #1</p> <p>AWARD WILL BE BASED ON THE OVERALL BEST VALUE TO THE GOVERNMENT TAKING INTO CONSIDERATION PAST PERFORMANCE AND PRICE.</p> <p>THE CONTRACTOR MUST PROVIDE THE FOLLOWING EVIDENCE WITH THEIR PROPOSAL:</p> <p>1) IS A LICENSED MASSACHUSETTS PIPE FITTER</p> <p>2) HAVE AT LEAST 10 YEARS COMMERCIAL PIPE FITTING EXPERIENCE</p> <p>3) EXPERIENCE WORKING IN PERMIT CONTROLLED CONFINED SPACES SUCH AS VAULTS AND MANHOLES</p> <p>THE FOLLOWING INFORMATION IS REQUESTED IN ACCORDANCE WITH FAR 52.204-3:</p> <p>CHECK ONE:</p> <p><input type="checkbox"/> INCORPORATED</p> <p><input type="checkbox"/> SOLE PROPRIETORSHIP</p> <p><input type="checkbox"/> PARTNERSHIP</p> <p>PROVIDE ONE:</p> <p><input type="checkbox"/> TAXPAYER IDENTIFICATION NUMBER _____</p> <p><input type="checkbox"/> SOCIAL SECURITY NUMBER _____</p>				

GENERAL DECISION MA000001 02/11/00 MA1  
General Decision Number MA000001

Superseded General Decision No. MA990001

**State: Massachusetts**

Construction Type:  
**BUILDING**

**County(ies):**

BARNSTABLE	ESSEX	NORFOLK
BRISTOL	<b>MIDDLESEX</b>	SUFFOLK
DUKES	NANTUCKET	

**BUILDING** CONSTRUCTION PROJECTS (does not include single family homes and apartments up to and including 4 stories)

Modification Number	Publication Date
0	02/11/2000

**COUNTY(ies):**

BARNSTABLE	ESSEX	NORFOLK
BRISTOL	<b>MIDDLESEX</b>	SUFFOLK
DUKES	NANTUCKET	

ASBE0006A 09/01/1998

	Rates	Fringes
BARNSTABLE (Except Barnstable, Bourne, Falmouth, Mashpee, Sandwich); BRISTOL (Easton); ESSEX; SUFFOLK; <b>MIDDLESEX</b> ; AND NORFOLK (Except Bellingham, Franklin, Plainville, Wrentham) COUNTIES		

INSULATORS/ASBESTOS WORKERS

Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems	24.66	10.08
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ASBE0006B 09/01/1998

	Rates	Fringes
BARNSTABLE (Except Barnstable, Bourne, Falmouth, Mashpee, Sandwich), ESSEX, <b>MIDDLESEX</b> , NORFOLK (Except Bellingham, Franklin, Plainville, Wrentham), AND SUFFOLK COUNTIES		

HAZARDOUS MATERIAL HANDLER:

Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems whether they contain asbestos or not	17.00	6.75
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ASBE0031E 09/01/1998

	Rates	Fringes
BARNSTABLE (Townships of Barnstable, Bourne, Falmouth, Mashpee and Sandwich), BRISTOL (Except Easton) & NORFOLK (Bellingham, Franklin, Plainville & Wrentham) DUKES & NANTUCKET COUNTIES		

INSULATOR/ASBESTOS WORKER

Includes the application of all

insulating materials, protective coverings, coatings, and finishes

to all types of mechanical systems	22.30	8.24
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ASBE0201A 02/01/1993

	Rates	Fringes
BARNSTABLE (Barnstable, Bourne, Falmouth, Mashpee, Sandwich); AND BRISTOL (Except Easton) COUNTIES		

HAZARDOUS MATERIAL HANDLER

Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not

	17.45	4.70
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BOIL0029A 10/01/1998

	Rates	Fringes
BOILERMAKERS	23.87	31%+3.96

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BRMA0001H 09/01/1999

	Rates	Fringes
BRISTOL (Attleboro, Berkley, Dighton, Mansfield, North Attleboro, Norton, Raynham, Rehoboth, Seekonk, Taunton) AND NORFOLK (Bellingham, Canton, Dedham, Foxboro, Franklin, Norfolk, Norwood, Plainville, Sharon, Walpole, Westwood, Wrentham) COUNTIES		

BRICKLAYERS, CEMENT MASONS, and PLASTERERS

	28.22	11.09
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BRMA0001I 09/01/1998

	Rates	Fringes
MIDDLESEX (Acton, Asby, Ayer, Bedford, Billerica, Boxboro, Carlisle, Chemsford, Dracut, Dunstable, Ft. Denvers, Groton, Littleton, Lowell, North Acton, Pepperell, Shirley, South Acton, Tewksbury, Townsend, Tyngsboro, West Acton, Westford, Wilmington)		

BRICKLAYERS & PLASTERERS	25.26	10.99
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BRMA0001J 09/01/1998

	Rates	Fringes
<b>MIDDLESEX</b> (Ashland, Framingham, Holliston, Hopkinton, Hudson, Maynard, Natick, Sherborn, Stow); and NORFOLK (Medfield, Medway, Millis)		

BRICKLAYERS	25.26	10.99
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BRMA0003A 07/01/1999

	Rates	Fringes
MARBLE, TILE & TERRAZZO WORKERS	28.15	11.58
TERRAZZO FINISHERS	31.30	7.16
MARBLE & TILE FINISHERS	22.74	11.41

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BRMA0003C 08/01/1999

	Rates	Fringes
<b>MIDDLESEX</b> (Arlington, Cambridge, Everett, Malden, Medford, Melrose, Somerville); NORFOLK (Brookline, Milton); and SUFFOLK		

BRICKLAYERS	29.57	11.24
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BRMA0003F 08/01/1999

	Rates	Fringes
ESSEX (Amesbury, Andover, Beverly, Boxford, Danvers, Essex, Georgetown, Gloucester, Groveland, Hamilton, Haverhill, Ipswich, Lawrence, Lynn, Lynnfield, Manchester, Marblehead, Merrimac, Methuen, Middleton, Nahant, Newbury, Newburyport, North Andover, Peabody, Rockport, Rowley, Salisbury, Salem, Saugus, Swampscott, Topsfield Wakefield, Wenham, West Newbury); and <b>MIDDLESEX</b> (Reading, North Reading, Wakefield)		

BRICKLAYERS, CEMENT MASONS, and PLASTERERS	29.41	11.34
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BRMA0003G 08/01/1999

	Rates	Fringes
<b>MIDDLESEX</b> (Belmont, Burlington, Concord, Lexington, Lincoln, Stoneham, Sudbury, Waltham, Watertown, Wayland, Weston, Winchester, Woburn)		

BRICKLAYERS & PLASTERERS	28.17	12.64
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BRMA0003H 08/01/1999

	Rates	Fringes
<b>MIDDLESEX</b> (Newton) and NORFOLK (Dover, Needham, Wellesley)		

BRICKLAYERS, CEMENT MASONS, and PLASTERERS	28.67	12.14
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BRMA0003I 08/01/1999

	Rates	Fringes
BARNSTABLE; BRISTOL (Acushnet, Darmouth, Farhaven, Fall River, Freetown, New Bedford, Somerset, Swansea, Westport); DUKES; and NANTUCKET COUNTIES		

BRICKLAYERS, CEMENT MASONS, and PLASTERERS	29.47	11.34
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BRMA0003J 08/01/1999

	Rates	Fringes
NORFOLK <b>COUNTY</b> (Avon, Braintree, Cohasset, Holbrook, Quincy, Randolph, Soughton, Weymouth)		

BRICKLAYERS, CEMENT MASONS, and PLASTERERS	28.17	12.64
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CARP0026A 10/01/1999

	Rates	Fringes
BRISTOL (Attleborough, North Attleborough); ESSEX; <b>MIDDLESEX</b> (Except Belmont, Cambridge, Everett, Malden, Medford, Somerville); AND NORFOLK (Bellingham, Canton, Foxboro, Franklin, Medfield, Medway, Millis, Needham, Norfolk, Norwood, Plainville, Sharon, Walpole, Wellesley, Westwood, Wrentham)		

CARPENTERS	21.94	10.11
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CARP0033A 10/01/1999

	Rates	Fringes
<b>MIDDLESEX</b> (Belmont, Cambridge, Everett, Malden, Medford, Somerville); NORFOLK (Brookline, Dedham, Milton); and SUFFOLK		

CARPENTERS	25.92	11.46
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CARP0056K 08/01/1999

	Rates	Fringes
SUFFOLK (All of <b>County</b> ); and those areas of BARNSTABLE, BRISTOL, ESSEX, <b>MIDDLESEX</b> & NORFOLK COUNTIES situated inside Boston Beltway (I-495) and North of Cape Cod Canal		

PILEDRIVERMEN	25.44	10.91
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CARP0056L 10/01/1999

	Rates	Fringes
All of DUKES and NANTUCKET COUNTIES; and those areas of BARNSTABLE, BRISTOL, and NORFOLK COUNTIES situated OUTSIDE Boston Beltway (I-495) and South of Cape Cod Canal		

PILEDRIVERMEN	22.92	10.91
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CARP0056M 10/01/1999

Those areas of ESSEX and **MIDDLESEX** COUNTIES situated OUTSIDE  
Boston Beltway (I-495)

	Rates	Fringes
PILEDRIVERMEN	23.68	10.91

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CARP0424C 10/01/1999

NORFOLK **COUNTY** (Braintree, Cohasset, Scituate, Weymouth, Quincy)

	Rates	Fringes
CARPENTERS	21.94	10.11

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CARP0624E 10/01/1999

BARNSTABLE; BRISTOL (Except Attleboro & North Attleboro); DUKES;  
NANTUCKET; AND NORFOLK (Avon, Holbrook, Randolph, Stoughton)  
COUNTIES

	Rates	Fringes
CARPENTERS	20.42	10.11

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CARP1121A 04/01/1999

	Rates	Fringes
MILLWRIGHTS	23.71	12.16

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CARP2168A 04/01/1999

**MIDDLESEX** (Belmont, Cambridge, Everett, Malden, Medford,  
Somerville); NORFOLK (Brookline, Dedham, Milton); and SUFFOLK

	Rates	Fringes
SOFT FLOOR LAYERS	25.86	10.21

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CARP2168E 04/01/1999

BRISTOL; ESSEX; **MIDDLESEX** (Except Belmont, Cambridge, Everett,  
Malden, Medford, Somerville); Remainder of Norfolk **County**

	Rates	Fringes
SOFT FLOOR LAYERS	21.99	10.21

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CARP2168F 04/01/1999

BARNSTABALE; DUKES; AND NANTUCKET

	Rates	Fringes
SOFT FLOOR LAYERS	20.44	10.21

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ELEC0096A 12/01/1999

	Rates	Fringes
<b>MIDDLESEX</b> (Ashby, Ashland, Ayer, Ft. Devens, Groton, Hopkinton, Hudson, Marlboro, Pepperell, Shirley, Stow, Townsend)		

ELECTRICIAN	25.15	8.64+3%
TELEDATA SYSTEM INSTALLERS	17.32	6.98

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ELEC0099A 12/01/1999

	Rates	Fringes
BRISTOL (Attleboro, North Attleboro, Seekonk)		

ELECTRICIANS	24.22	41%
TELEDATE SYSTEM INSTALLERS	17.81	4.12+8%

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ELEC0103A 09/01/1999

	Rates	Fringes
ESSEX; <b>MIDDLESEX</b> ; NORFOLK (except Avon, Holbrook, Plainville, Randolph, Stoughton) SUFFOLK		

TELEDATA SYSTEMS INSTALLERS	20.78	11.10
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ELEC0103B 09/01/1999

	Rates	Fringes
ESSEX (Amesbury, Andover, Boxford, Georgetown, Groveland, Haverhill, Lawrence, Merrimac, Methuen, Newbury, Newburyport, North Andover, Rowley, Salisbury, West Newbury); <b>MIDDLESEX</b> (Bedford, Billerica, Boxboro, Burlington, Carlisle, Chelmsford, Dracut, Dunstable littleton, Lowell, North Reading, Tewksbury, Tyngsboro, Westford, Wilmington)		

ELECTRICIANS	24.24	12.87
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ELEC0103D 09/01/1999

	Rates	Fringes
ESSEX (Beverly, Danvers, Essex, Gloucester, Hamilton, Ipswich, Manchester, Marblehead, Middleton, Peabody, Rockport, Salem, Topsfield, Wenham)		

ELECTRICIANS	23.14	11.24
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ELEC0103E 09/01/1999

	Rates	Fringes
ESSEX (Lynn, Lynnfield, Nahant, Saugus, Swampscott); <b>MIDDLESEX</b> (Acton, Arlington, Belmont, Cambridge, Concord, Everett, Framingham, Holliston, Lexington, Lincoln, Malden, Maynard, Medford, Melrose, Natick, Newton, Reading, Sherborn, Somerville, Stoneham, Sudbury, Wakefield, Waltham, Watertown, Wayland, Weston, Winchester, Woburn); NORFOLK (Bellingham, Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Foxboro, Franklino, Medfield, Medway, Millis, Milton, Needham, Norfolk, Norwood, Quincy, Sharon, Walpole, Wellesley, Westwood, Weymouth, Wrentham); PLYMOUTH (Hingham and Hull); SUFFOLK		

ELECTRICIANS	30.49	12.25
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ELEC0104A 09/01/1999

	Rates	Fringes
LINE CONSTRUCTION:		
Lineman	26.85	7.97+3%+A

FOOTNOTES:

- A. PAID HOLIDAYS: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Christmas Day and Columbus Day, provided the employee has been employed 5 working days prior to any one of the listed holidays.
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ELEC0223G 09/01/1999

	Rates	Fringes
BARNSTABLE; BRISTOL (Except Attleboro, North Attleboro, Seekonk); DUKES; NANTUCKET AND NORFOLK (Avon, Halbrook, Plainville, Randolph, Stoughton)		

ELECTRICIANS	24.15	42.5%+1.27
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ELEC0223H 09/01/1999

	Rates	Fringes
BARNSTABLE; BRISTOL (Except Attleboro, North Attleboro, Seekonk); DUKES; NANTUCKET AND NORFOLK (Avon, Halbrook, Plainville, Randolph, Stoughton)		

TELEDATA	18.00	6.16
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ELEV0004A 04/16/1999

	Rates	Fringes
ELEVATOR MECHANICS	33.955	6.67+A

FOOTNOTE FOR ELEVATOR MECHANICS:

- A. Employer Contributes 8% of basic hourly rate for 5 years or more of service and 6% for 6 months to 5 years of service as vacation pay credit. Six paid holidays (providing employee has worked 5 consecutive days before and the working day after the holiday): New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.
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ENGI0004A 06/01/1999

	Rates	Fringes
POWER EQUIPMENT OPERATORS:		
Group 1	26.77	10.62+A
Group 2	26.60	10.62+A
Group 3	21.11	10.62+A
Group 4	23.69	10.62+A
Group 5	17.84	10.62+A
Group 6	19.42	10.62+A

FOOTNOTE FOR POWER EQUIPMENT OPERATORS:

- A. PAID HOLIDAYS: New Year's Day, Washington,s Birthday, Labor Day, Memorial Day, Independence Day, Patriot's Day, Columbus Day, Veteran's Day, Thanksgiving Day, Christmas Day

HOURLY PREMIUM FOR BOOM LENGTHS (Including Jib):

Over 150 ft.	+1.17
Over 185 ft.	+2.06
Over 210 ft.	+2.89
Over 250 ft.	+4.38
Over 295 ft.	+6.07

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

Group 1: Crane; shovel; truck crane; cherry picker; dragline; trench hoe; backhoe; three drum machine; derrick; pile driver; elevator tower; hoist; gradall; shovel dozer; front end loader; fork lift; suger; boring machine; rotaryu drill; post hole hammer; post hole digger; pumpcrete machine; asphalt plant (on site); concrete batching and/or mixing plant (on site); crusher plat (on site); paving concrete mixer; timber jack

Group 2: Sonic or vibratory hammer; grader; scraper; tandem scraper; concrete pump; bulldozer; tractor; york rake; mulching machine; portable steam boiler; portable steam generator; roller; spreader; tamper (self propelled or tractor drawn); asphalt paver; mechanic - maintenance; paving screed machine; stationary steam boiler; paving concrete finishing machine; cal truck; ballast regulator; switch tamper; rail anchor machine; tire truck

Group 3: Pumps (1-3 grouped); compressor; welding machine (1-3 grouped); generator; concrete vibrator; heater (power driven 1-5); well point system (operating); syphon-pulsometer; concrete mixer; valves controlling permanent plant air or steam; conveyor; Jackson type tamper; single diaphragm pump; lighting plant

Group 4: Assistant engineer (fireman)

Group 5: Oiler (other than truck cranes and gradalls)

Group 6: Oiler (on truck cranes and gradalls)  
stant engineer (on truck crane and gradall)

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IRON0007F 09/16/1999

	Rates	Fringes
BRISTOL (Easton); ESSEX (Beverly Gloucester, Lynn, Lynnfield, Manchester, Marblehead Nahant, Salem, Saugus, Swampscott); <b>MIDDLESEX</b> (Arlington, Bedford, Belmont, Burlington, Cambridge, Concord, Everett, Framingham, Lexington, Lincoln, Malden, Maynard, Medford, Melrose, Natick, Newton, Reading, Sherborn, Somerville, Stoneham, Sudbury, Wakefield, Waltham, Watertown, Wayland, Weston, Winchester, Woburn); NORFOLK (Except Medway); SUFFOLK		

IRONWORKERS	25.00	13.69
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ESSEX (Amesbury, Andover, Boxford, Danvers, Essex, Gerogetown, Hamilton, Haverhill, Ipswich, Lawrence, Merrimac, Methuen, Newbury, Newburyport, North Andover, Rockport, Rowley, Salisbury, Topsfield, Wenham, West Newbury); **MIDDLESEX** (Action, Billerica, Carlisle, Chelmsford, Dracut, Dunstable, Groton, Groveland, Littleton, Lowell, Middleton, North Reading, Pepperell, Tewksbury, Tyngsboro, Westford, Wilinton)

IRONWORKERS	20.59	13.69
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IRON0037E 01/04/1999

	Rates	Fringes
BARNSTABLE; BRISTOL (Acushnet, Attleboro, Berkley, Dartmouth, Dighton, Fairhaven, Fall River, Freetown, Mansfield, New Bedford, North Attleboro, Norton, Raynham, Rehoboth, Seekonk, Somerset, Swansea, Taunton, Westport); DUKES; NANTUCKET; NORFOLK (Billingham, Franklin, Plainville, Wrentham)		

IRONWORKERS	23.33	11.40
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IRON0057A 11/01/1999

	Rates	Fringes
<b>MIDDLESEX</b> (Ashby, Ashland, Ayer, Boxboro, Holliston, Hopkinton, Hudson, Marlboro, Shirley, Stow, Townsend); NORFOLK (Medway)		

IRONWORKERS	26.25	12.20
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LABO0014B 06/01/1999

SUFFOLK **COUNTY** (Boston, Chelsea, Revere, Winthrop, Deer Island,  
Nut Island, Cambridge)

	Rates	Fringes
PLASTERER TENDERS	20.75	7.95

BARNSTABLE, BRISTOL, DUKES, ESSEX, **MIDDLESEX**, NANTUCKET, AND  
NORFOLK COUNTIES

PLASTERER TENDERS	19.05	7.45
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LABO0022I 06/01/1999

SUFFOLK **COUNTY** (BOSTON, CHELSEA, REVERE, WINTHROP, DEER & NUT  
ISLAND AND CAMBRIDGE)

	Rates	Fringes
LABORERS:		
Group 1	20.75	7.95
Group 2	21.00	7.95
Group 3	21.50	7.95
Group 4	21.75	7.95
Group 5	21.50	7.95
Group 6	22.75	7.95

#### LABORERS CLASSIFICATIONS

GROUP 1: Laborers; Carpenter Tenders

GROUP 2: Jackhammer operator; pavement breaker; asphalt raker  
carbide core drilling machine; chain saw operator; pipelayer;  
barco type jumping tampers; laser beam; concrete pump; mason  
tender; motorized mixer; ride-on motorized buggy; fence and beam  
rail erector

GROUP 3: Air track, block paver; rummer; curb setter

GROUP 4: Blaster; powderman

GROUP 5: Pre-cast floor and roof plank erector

GROUP 6: Asbestos removal laborers

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LABO0022J 06/01/1999

BARNSTABLE, BRISTOL, DUKES, ESSEX, **MIDDLESEX**, NANTUCKET, AND  
NORFOLK COUNTIES

LABORERS:

Group 1	19.05	7.45
Group 2	19.30	7.45
Group 3	19.80	7.45
Group 4	20.05	7.45
Group 5	19.80	7.45
Group 6	21.05	7.45

LABORERS CLASSIFICATIONS

GROUP 1: Laborers; Carpenter Tenders

GROUP 2: Jackhammer operator; pavement breaker; asphalt raker  
carbide core drilling machine; chain saw operator; pipelayer;  
barco type jumping tampers; laser beam; concrete pump; mason  
tender; motorized mixer; ride-on motorized buggy; fence and beam  
rail erector

GROUP 3: Air track, block paver; rummer; curb setter

GROUP 4: Blaster; powderman

GROUP 5: Pre-cast floor and roof plank erector

GROUP 6: Asbestos removal laborers

LABO1421D 06/01/1999

	Rates	Fringes
ESSEX; SUFFOLK; <b>MIDDLESEX</b> ; AND NORFOLK COUNTIES		

WRECKING LABORERS:

Yardmen Laborer (Salvage Yard only)	16.85	7.95
Yardmen Burners, Sawyers	19.95	7.95
Wrecking Laborers	20.85	7.95
Adzeman	20.85	7.95
Burners, Jackhammers	21.10	7.95
Small Front Loaders on Tract and		
Bobcat Operators	21.35	7.95
Asbestos Removers	22.85	7.95

BARNSTABLE; BRISTOL; DUKES; AND NANTUCKET COUNTIES

WRECKING LABORERS	20.85	7.95
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PAIN0035D 07/01/1999

Rates Fringes  
BARNSTABLE; BRISTOL; ESSEX; NANTUCKET; DUKES; COUNTIES; REMAINDER  
OF NORFOLK; **MIDDLESEX** AND SUFFOLK COUNTIES

PAINTERS:

NEW CONSTRUCTION:

Brush, Taper	24.75	9.17
Spray, Sandblast	25.75	9.17

REPAINT:

Brush, Taper	22.81	9.17
Spray, Sandblast	23.81	9.17

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PAIN0035M 07/01/1999

Rates Fringes  
**MIDDLESEX** (Cambridge, Everett, Malden, Medford, Somerville)  
SUFFOLK **COUNTY** (Boston, Chelsea) NORFOLK **COUNTY** (Brookline)

PAINTERS:

NEW CONSTRUCTION:

Brush, Taper	28.05	9.17
Spray, Sandblast	29.05	9.17

REPAINT:

Brush, Taper	26.11	9.17
Spray, Sandblast	27.11	9.17

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PAIN1044A 10/17/1997

Rates Fringes  
ESSEX; **MIDDLESEX**; NORFOLK; SUFFOLK

GLAZIERS	25.21	9.60
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PAIN1333G 09/24/1996

Rates Fringes  
BARNSTABLE, BRISTOL, DUKES, NANTUCKET

Glaziers	23.96	4.90+A
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FOOTNOTE:

A. PAID HOLIDAYS; LABOR DAY (Provided employee has worked any  
part of the week prior to Labor Day and part of the week after  
Labor Day)

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PLAS0534A 09/01/1999

	Rates	Fringes
ESSEX (Amesbury, Andover, Boxford, Georgetown, Groveland, Haverhill, Lawrence, Merrimac, Methuen, North Andover, Salisbury, West Newbury); <b>MIDDLESEX</b> (Acton, Arlington, Bedford, Billerica, Burlington, Cambridge, Carlisle, Chemsford, Dracut, Dunstable, Everett, Littleton, Lowell, Malden, Medford, Melrose, Reading, North Reading, Stoneham, Tewksbury, Tyngsboro, Wakefield, Westford, Wilmington, Winchester & Woburn); AND NORFOLK (Brookline, Milton) <b>SUFFOLK COUNTY</b>		

CEMENT MASONS	26.25	14.58
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PLAS0534D 03/01/1999

	Rates	Fringes
<b>MIDDLESEX</b> (Arlington, Cambridge, Everett, Malden, Medford, Melrose, Somerville); NORFOLK (Brookline, Milton): and <b>SUFFOLK</b>		

PLASTERERS	25.30	14.58
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PLUM0004A 09/01/1999

	Rates	Fringes
<b>MIDDLESEX</b> (Ashby, Ayer - West of Greenville branch of Boston and Maine Railroad, Ft. Devens, Groton, Shirley, Townsend)		

PLUMBERS & PIPE FITTERS	23.86	9.30
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PLUM0012E 09/01/1999

	Rates	Fringes
ESSEX (Lynn, Lynnfield, Nahant, Saugus, Swampscott); <b>MIDDLESEX</b> (Acton, Arlington, Ashland, Ayer - except W. of Greenville Branch of Boston & Maine RR, Bedford, Belmont, Billerica, Boxboro, Burlington, Cambridge, Carlisle, Chelmsford, Concord, Dracut, Dunstable, Everett, Framingham, Hudson, Holliston, Hopkinton, Lexington, Lincoln, Littleton, Lowell, Malden, Marlboro, Maynard, Medford, Melrose, Natick, Newton, North Reading, Pepperell, Reading, Sherborn, Somerville, Stoneham, Stow, Sudbury, Tewksbury, Tyngsboro, Wakefield, Waltham, Watertown, Wayland, Westford, Wilmington, Winchester, Woburn); NORFOLK (Bellingham, Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Foxboro, Franklin, Medfield, Medway, Millis, Milton, Needham, Norfolk, Norwood, Plainville, Quincy, Sharon, Walpole, Wellesley, Westwood, Weymouth, Wrentham); AND <b>SUFFOLK COUNTIES</b>		

PLUMBERS	29.22	11.73
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PLUM0051D 09/01/1999

	Rates	Fringes
BARNSTABLE; BRISTOL; DUKES; NANTUCKET; AND NORFOLK (Avon, Holbrook, Randolph, Stoughton) <b>COUNTIES</b>		

PLUMBERS & PIPEFITTERS	24.20	9.52
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PLUM0138A 09/01/1999

	Rates	Fringes
ESSEX (Ames, Andover, Beverly, Boxford, Byfield, Danvers, Essex, Georgetown, Gloucester, Groveland, Hamilton, Haverhill, Ipswich, Lawrence, Manchester, Marblehead, Merrimac, Methuen, Middleton, Newbury, Newburyport, North Andover, Peabody, Rockport, Rowley, Salem, Salisbury, Topsfield, Wenham, West Newbury)		

PLUMBERS, PIPEFITTERS,  
and STEAMFITTERS

24.32

10.85

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PLUM0537C 09/01/1999

	Rates	Fringes
MIDDLESEX (Arlington, Cambridge, Everett, Lincoln, Malden, Medford, Melrose, Reading, Wakefield, Winchester and Woburn), NORFOLK (Bellingham, Braintree, Brookline, Canton, Cashasset, (Bellingham, Braintree, Brookline, Canton Cashasset, Dedham, Foxboro, Franklin, Millis, Milton, Sharon, Walpole, Westwood, and Wrentham) ESSEX (Lynn, Lynnfield, Nahant, Saugus, Swampscott) SUFFOLK (Boston and Chelsea)		

PIPEFITTERS

29.46

11.69

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ROOF0033A 02/01/1999

	Rates	Fringes
ROOFERS: All Tear-off and/or removal of any types of roofing, and all spudding, sweeping, vacuuming and/or cleanup of any and all areas of any type where a roof is to be relaid	22.96	10.65

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SFMA0550A 09/16/1998

	Rates	Fringes
BRISTOL (Portion within 35 mile radius from Boston City Hall; ESSEX; MIDDLESEX (Except Ashby, Townsend, and portions of Pepperell and Shirley beyond 35 mile radius from Boston City Hall); NORFOLK; PLYMOUTH (Portion within 35 mile radius of Boston City Hall); SUFFOLK		

SPRINKLER FITTERS

33.40

6.76

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MA000001 - 1

SFMA0669A 01/01/2000

	Rates	Fringes
BARNSTABLE; BRISTOL (Beyond 35 mile radius of Boston City Hall); DUKES; MIDDLESEX (Ashby, Townsend, portions of Pepperell and Shirley beyond 35 mile radius of Boston City Hall); NANTUCKET; PLYMOUTH (Beyond 35 mile radius of Boston City Hall)		

SPRINKLER FITTERS	25.53	6.45
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SFMA0676A 01/01/1999		
	Rates	Fringes
BRISTOL (Seekonk, Swansea, and Somerset)		
SPRINKLER FITTERS	26.15	8.85
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SHEE0017C 02/01/1999		
	Rates	Fringes
BRISTOL (Attleboro, Berkley, Easton, Mansfield, North Attleboro, Norton, Raynham, Taunton); ESSEX; <b>MIDDLESEX</b> ; NORFOLK; PLYMOUTH (except except Marion, Mattapoisett, Rochester, Wareham); SUFFOLK		
SHEET METAL WORKERS	27.83	13.69
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SHEE0017G 01/01/1998		
	Rates	Fringes
BARNSTABLE; BRISTOL (Acushnet, Dartmouth, Dighton, Fairhaven, Fall River, Freetown, Rehoboth, Seekonk, Somerset, Swansea, Westport, New Bedford); DUKES; AND NANTUCKET		
SHEET METAL WORKERS	20.59	11.04
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TEAM0379A 12/01/1998		
	Rates	Fringes
TRUCK DRIVERS:		
Group 1	21.03	8.36+A+B
Group 2	21.20	8.36+A+B
Group 3	21.27	8.36+A+B
Group 4	21.39	8.36+A+B
Group 5	21.49	8.36+A+B
Group 6	21.78	8.36+A+B
Group 7	22.07	8.36+A+B
POWER TRUCKS \$.25 DIFFERENTIAL BY AXLE		
TUNNEL WORK (UNDERGROUND ONLY) \$.40 DIFFERENTIAL BY AXLE		
TRUCK DRIVERS CLASSIFICATIONS		
Group 1:	Station wagons; panel trucks; and pickup trucks	
Group 2:	Two axle equipment; & forklift operator	
Group 3:	Three axle equipment and tireman	
Group 4:	Four and Five Axle equipment	
Group 5:	Specialized earth moving equipment under 35 tons other than conventional type trucks; low bed; vachual; mechanics, paving restoration equipment	
Group 6:	Specialized earth moving equipment over 35 tons	
Group 7:	Trailers for earth moving equipment (double hookup)	

FOOTNOTES:

- A. PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Patriot's Day, Columbus Day, Veteran's Day, Thanksgiving Day, and Christmas Day
- B. PAID VACATION: Employees with 4 months to 1 year of service receive 1/2 day's pay per month; 1 week vacation for 1 - 5 years of service; 2 weeks vacation for 5 - 10 years of service; and 3 weeks vacation for more than 10 years of service

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR?5.5(a

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial

contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U. S. Department of Labor  
200 Constitution Avenue, N. W.  
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N. W.  
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U. S. Department of Labor  
200 Constitution Avenue, N. W.  
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.  
END OF GENERAL DECISION

REPAIRS TO WATER METER VAULT, BUILDING 1

**PROJECT TABLE OF CONTENTS**

DIVISION 01 – GENERAL REQUIREMENTS

01110	SUMMARY OF WORK
01140	WORK RESTRICTIONS
01310	ADMINISTRATIVE REQUIREMENTS
01320	CONSTRUCTION PROGRESS DOCUMENTATION
01330	SUBMITTAL PROCEDURES
01450	QUALITY CONTROL
01525	SAFETY REQUIREMENTS
01770	CLOSEOUT PROCEDURES

DIVISION 02 – WATER DISTRIBUTION

02510	WATER DISTRIBUTION
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## SECTION 01110

### SUMMARY OF WORK

#### **PART 1 GENERAL**

##### **1.1 WORK COVERED BY CONTRACT DOCUMENTS**

###### **1.1.1 Project Description**

The work includes the removal and replacement of existing piping, valves, couplings, supports ect. in an existing water meter vault and the preparation and painting of a 10" diameter gate valve and incidental related work.

###### **1.1.2 Location**

The work shall be located at the Volpe National Transportation Systems Center, Cambridge, MA, approximately as on the contract drawings. The exact location will be shown by the Contracting Officer.

##### **1.2 EXISTING WORK**

In addition to "FAR 52.236-9, Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements":

- a. Remove or alter existing work in such a manner as to prevent injury or damage to any portions of the existing work which remain.
- b. Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as approved by the Contracting Officer. At the completion of operations, existing work shall be in a condition equal to or better than that which existed before new work started.

#### **PART 2 PRODUCTS**

Not used.

#### **PART 3 EXECUTION**

Not used.



SECTION 01140

WORK RESTRICTIONS  
09/98

**PART 1 GENERAL**

**1.1 SPECIAL SCHEDULING REQUIREMENTS**

- a. Have all materials, equipment, and personnel required to perform the work at the site prior to the commencement of the work.
- b. Work under this contract cannot begin until a new double check valve has been installed in Building 1 Mechanical Room under a separate contract.
- c. The Volpe Center will remain in operation during the entire construction period. The Contractor shall conduct his operations so as to cause the least possible interference with normal operations of the activity.
- d. Permission to interrupt any Activity roads, and/or utility service shall be requested in writing a minimum of 7 calendar days prior to the desired date of interruption.

**1.2 CONTRACTOR ACCESS AND USE OF PREMISES**

**1.2.1 Activity Regulations**

Ensure that Contractor personnel employed on the Activity become familiar with and obey Activity regulations including safety, fire, traffic and security regulations. Keep within the limits of the work and avenues of ingress and egress. Wear hard hats in designated areas. Do not enter any restricted areas unless required to do so and until cleared for such entry. The Contractor's equipment shall be conspicuously marked for identification.

**1.2.2 Working Hours**

Regular working hours shall be scheduled, between 6 a.m. and 6 p.m..

**1.2.3 Occupied and Existing Building[s]**

The Contractor shall be working around existing buildings which are occupied. Do not enter the buildings without prior approval of the Contracting Officer.

**1.2.4 Utility Cutovers and Interruptions**

- a. Make utility cutovers and interruptions after normal working hours or on Saturdays, Sundays, and Government holidays.

**PART 2 PRODUCTS**

Not used.

**PART 3 EXECUTION**

Not used.

SECTION 01310

ADMINISTRATIVE REQUIREMENTS  
03/98

**PART 1 GENERAL**

**1.1 SUBMITTALS**

Submit the following in accordance with Section 01330, "Submittal Procedures."

**1.1.1 SD-18 Records**

- a. List of contact personnel G
- b. Personnel list G

**1.2 CONTRACTOR PERSONNEL REQUIREMENTS**

**1.2.1 Subcontractors and Personnel**

Furnish a list of contact personnel of the Contractor and subcontractors including addresses and telephone numbers for use in the event of an emergency. As changes occur and additional information becomes available, correct and change the information contained in previous lists.

**1.2.2 Identification Badges**

Identification badges, if required, will be furnished without charge. Application for and use of badges will be as outlined at the pre-construction conference. Immediately report instances of lost or stolen badges to the Contracting Officer.

**1.2.3 Contractor Personnel Requirements**

Failure to obtain entry approval will not affect the contract price or time of completion.

**1.2.4 Employment Restrictions**

**1.2.4.1 Personnel List**

Submit for approval, at least 15 days prior to the desired date of entry, an original alphabetical list of personnel who require entry into Government property to perform work on the project. Furnish for each person:

- a. Name
- b. Date and place of birth
- c. Home address
- d. Social security number

The request for personnel passes shall be accompanied with the following certification:

"I hereby certify that all personnel on this list are either born U.S. citizens, naturalized U.S. citizens with the naturalization number shown, or legal aliens with the alien registration number indicated."

Signature/Firm Name

(all information submitted will be handled as confidential)

#### 1.2.4.2 Control

Maintain strict accountability over passes. Immediately report to the source of issue, passes missing or lost and the circumstances.

### 1.3 SUPERVISION

Have at least one qualified supervisor capable of reading, writing, and conversing fluently in the English language on the job site during working hours.

### 1.4 PRECONSTRUCTION CONFERENCE

After award of the contract but prior to commencement of any work at the site, meet with the Contracting Officer to discuss and develop a mutual understanding relative to the administration of the contract, safety program, preparation of the schedule prices, shop drawings, and other submittals, scheduling programming, and prosecution of the work. Major subcontractors who will engage in the work shall also attend.

## PART 2 PRODUCTS

Not used.

## PART 3 EXECUTION

Not used.

SECTION 01320

CONSTRUCTION PROGRESS DOCUMENTATION  
09/98

**PART 1 GENERAL**

**1.1 SUBMITTALS**

Submit the following in accordance with Section 01330, "Submittal Procedures."

**1.1.1 SD-07 Schedules**

a. Construction schedule G

**1.2 CONSTRUCTION SCHEDULE**

Within 21 days after receipt of the Notice of Award, prepare and submit to the Contracting Officer for approval a construction schedule in the form of a progress chart in accordance with the terms in Contract Clause "FAR 52.236-15, Schedules for Construction Contracts," except as modified in this contract.

**1.3 UPDATED SCHEDULES**

Update the construction schedule when schedule has been revised. Reflect any changes occurring since the last update.

**PART 2 PRODUCTS**

Not used.

**PART 3 EXECUTION**

Not used.

## SECTION 01330

### SUBMITTAL PROCEDURES 12/95

#### **PART 1 GENERAL**

##### **1.1 DEFINITIONS**

###### **1.1.1 Submittal**

Shop drawings, product data, samples, and administrative and closeout submittals presented for review and approval.

###### **1.1.2 Work**

As used in this section, on- and off-site construction required by the Contract documents, including labor necessary to produce the construction and materials, products, equipment, and systems incorporated or to be incorporated in such construction.

##### **1.2 SUBMITTALS**

All submittals are classified as indicated in the paragraph "Schedule of Submittal Descriptions." Submittals marked "G" indicate that the Government is the review and approval authority.

Submit the following in accordance with the requirements of this section.

###### **1.2.1 SD-18 Records**

- a. Submittal register G

###### **1.2.1.1 Submittal Register**

State for each submittal the Contractor's planned submittal date. Submit within 21 days after contract award. Submit on copies of the "Submittal Register." Obtain the original from the following source:

- a. From the register with the submittal items filled in, attached.

###### **1.2.1.2 Government's Responsibilities**

The Government will:

- a. Note the date on which the submittal was received from the Contractor.
- b. Review submittals for approval within the scheduling period specified and conformance with project design concepts and compliance with the Contract documents.
- c. Identify returned submittals with one of the actions defined in the paragraph entitled "Actions Possible" and with markings appropriate for the action indicated.

#### 1.2.1.3 Actions Possible

Submittals will be returned with one of the following notations:

- a. Submittals marked "not reviewed" will indicate the submittal has been previously reviewed and approved, is not required as a submittal, does not have evidence of being reviewed and approved by the Contractor, or is not complete. A submittal marked "not reviewed" will be returned with an explanation of the reason it is not reviewed. Returned submittals deemed to lack review by the Contractor or to be incomplete shall be resubmitted with appropriate action, coordination, or change.
- b. Submittals marked "approved" or "approved as submitted" authorize the Contractor to proceed with the work covered.
- c. Submittals marked "approved as noted" authorize the Contractor to proceed with the work as noted provided the Contractor takes no exception to the notations.
- d. Submittals marked "revise and resubmit" or "disapproved" indicate the submittal is incomplete or does not comply with the design concept or the requirements of the Contract documents and shall be resubmitted with appropriate changes.

### 1.3 FORMAT OF SUBMITTALS

#### 1.3.1 Transmittal Form

Transmit each submittal to the Contracting Officer. Transmit submittals with a transmittal form prescribed by the Contracting Officer and standard for the project. The transmittal form shall identify the Contractor, indicate the date of the submittal, and include information prescribed by the transmittal form and required in the paragraph entitled "Identifying Submittals."

##### 1.3.1.1 Reviewing, Certifying, Approving Authority

The Government shall be responsible for reviewing and certifying that submittals are in compliance with contract requirements.

#### 1.3.2 Identifying Submittals

Identify submittals with the following information permanently adhered to or noted on each separate component of each submittal and noted on the transmittal form. Mark each copy of each submittal identically, with the following:

- a. Project title and location.
- b. Construction contract number.
- c. The section number of the specification section for which the submittal is required.

- d. For a resubmission, an alphabetic suffix on the submittal description, for example, SD-10A, to indicate the resubmission.
- e. The name, address, and telephone number of the subcontractor, supplier, manufacturer or any other second tier contractor associated with the submittal.
- f. Product identification and location in project.

#### **1.4 QUANTITY OF SUBMITTALS**

##### **1.4.1 Number of Copies of Product Data**

- a. Submit six copies.

##### **1.4.2 Number of Copies of Shop Drawings**

- a. For shop drawings presented on sheets larger than 8 1/2 by 14 inches, submit one reproducible and three prints of each shop drawing prepared for this project.
  - (1) Transmit reproducibles rolled in mailing tubes.
  - (2) After review, the approving authority will retain the prints and return only the reproducible with notation resulting from the review.
- b. For shop drawings presented on sheets 8 1/2 by 14 inches or less, conform to the quantity requirements for product data.

#### **1.5 SCHEDULE OF SUBMITTAL DESCRIPTIONS (SD)**

##### **SD-02 Manufacturer's Catalog Data**

Data composed of catalog cuts, brochures, circulars, specifications and product data, and printed information in sufficient detail and scope to verify compliance with the contract documents.

##### **SD-04 Drawings**

Submittals which graphically show relationship of various components of the work, schematic diagrams of systems, detail of fabrications, layout of particular elements, connections, and other relational aspects of the work.

##### **SD-07 Schedules**

A tabular list of data including location and features regarding products, materials, equipment, or components to be used in the work.

##### **SD-08 Statements**

Document, required of Contractor, or through Contractor by way of a supplier, installer, manufacturer, or other lower tier Contractor, the purpose of which is to further the quality or orderly progression of a portion of work by documenting procedures, acceptability of methods or personnel, qualifications, or other verification of quality. a type of shop drawing.

#### SD-13 Certificates

Statements signed by responsible officials of manufacturer of product, system, or material attesting that product, system, or material meet specified requirements. Statements must be dated after award of this contract, name project, and list specific requirements which it is intended to address. A type of shop drawing.

#### SD-18 Records

Documentation to ensure compliance with an administrative requirement or to establish an administrative mechanism.

#### **PART 2 PRODUCTS**

Not used.

#### **PART 3 EXECUTION**

Not used.



SECTION 01450

QUALITY CONTROL  
09/98

**PART 1 GENERAL**

**1.1 SUBMITTALS**

Submit the following in accordance with Section 01330, "Submittal Procedures."

**1.1.1 SD-18 Records**

- a. Quality Control (QC) plan G

Submit a QC plan within 15 calendar days after receipt of Notice of Award.

**1.2 INFORMATION FOR THE CONTRACTING OFFICER**

Deliver the following to the Contracting Officer:

- a. Combined Contractor Production Report/Contractor Quality Control Report (1 sheet): Original and 1 copy, by 10:00 AM the next working day after each day that work is performed;
- b. Field Test Reports: 2 copies, within 2 working days after the test is performed, attached to the Contractor Quality Control Report;

**1.3 QC PROGRAM REQUIREMENTS**

**1.3.1 Preliminary Work Authorized Prior to Approval**

The only work that is authorized to proceed prior to the approval of the QC plan is mobilization of storage areas, temporary utilities, and surveying.

**1.3.2 Approval**

Approval of the QC plan is required prior to the start of construction. The Contracting Officer reserves the right to require changes in the QC Plan and operations as necessary to ensure the specified quality of work. The Contracting Officer reserves the right to interview any member of the QC organization at any time in order to verify the submitted qualifications.

**1.3.3 Notification of Changes**

Notify the Contracting Officer, in writing, of any proposed change, including changes in the QC organization personnel, minimum of seven calendar days prior to a proposed change. Proposed changes must be approved by the Contracting Officer.

## **1.4 QUALITY CONTROL (QC) PLAN**

### **1.4.1 Requirements**

Provide for approval by the Contracting Officer, a QC plan submitted in a 3-ring binder that covers, both on-site and off-site work and includes, the following:

- a. A table of contents listing the major sections identified with tabs in the following order:

- I. QC ORGANIZATION
- II. NAMES AND QUALIFICATIONS
- III. DUTIES, RESPONSIBILITY AND AUTHORITY OF QC PERSONEL

- a. Names and qualifications, for each person in the QC organization.
- b. Duties, responsibilities and authorities of each person in the QC organization.

## **1.5 TESTING**

Except as stated otherwise in the specification sections, perform sampling and testing required under this contract.

### **1.5.1 Testing Laboratory Requirements**

Provide an independent testing laboratory qualified to perform sampling and tests required by this contract.:

### **1.5.2 Accredited Laboratories**

Acceptable accreditation programs are the National Institute of Standards and Technology (NIST)/National Voluntary Laboratory Accreditation Program (NVLAP), the American Association of State Highway and Transportation Officials (AASHTO) program and the American Association for Laboratory Accreditation (A2LA) program. Furnish to the Contracting Officer a copy of the Certificate of Accreditation and Scope of Accreditation and latest directory of the accrediting organization for accredited laboratories. The scope of the laboratory's accreditation shall include the test methods required by the contract.

### **1.5.3 Test Results**

Cite applicable Contract requirements, tests or analytical procedures used. Provide actual results and include a statement that the item tested or analyzed conforms or fails to conform to specified requirements. If item fails to conform, notify the Contracting Officer immediately. Conspicuously stamp the cover sheet for each report in large red letters "CONFORMS" or "DOES NOT CONFORM" to the specification requirements, whichever is applicable. Test results shall be signed by a testing laboratory representative authorized to sign certified test reports. Furnish the signed reports, certifications, and other documentation to the Contracting Officer via the QC Manager. Furnish a summary report of field tests at the end of each month. Attach a copy of the summary report to the last daily Contractor Quality Control Report of each month.

#### **1.5.4 Test Reports**

The Contractor shall furnish the signed reports, certifications, and a summary report of field tests to the Contracting Officer.

### **1.6 DOCUMENTATION**

Maintain current and complete records of on-site and off-site QC program operations and activities.

#### **1.6.1 Contractor Production Report**

Reports are required for each day that work is performed and shall be attached to the Contractor Quality Control Report prepared for the same day. Account for each calendar day throughout the life of the Contract. The reporting of work shall be identified by terminology consistent with the construction schedule. Contractor Production Reports are to be prepared, signed and dated by the project superintendent and shall contain the following information:

- a. Date of report, report number, name of Contractor, Contract number, title and location of Contract and superintendent present.
- b. Weather conditions in the morning and in the afternoon including maximum and minimum temperatures.
- c. A list of Contractor and subcontractor personnel on the work site, their trades, employer, work location, description of work performed and hours worked.
- d. A list of job safety actions taken and safety inspections conducted. Indicate that safety requirements have been met including the results on the following:
  - Was a job safety meeting held? (If YES, attach a copy of the meeting minutes)
  - Were there any lost time accidents? (If YES, attach a copy of the completed OSHA report.)
  - Was crane/trenching/scaffold/high voltage electrical/high work done? (If YES, attach a statement or checklist showing inspection performed.)
  - Was hazardous material/waste released into the environment? (If YES, attach a description of meetings held and accidents that happened.)
- e. A list of equipment/material received each day that is incorporated into the job.
- f. A list of construction and plant equipment on the work site including the number of hours used, idle and down for repair.

- g. Include a "remarks" section in this report which will contain pertinent information including directions received, problems encountered during construction, work progress and delays, conflicts or errors in the drawings or specifications, field changes, safety hazards encountered, instructions given and corrective actions taken, delays encountered and a record of visitors to the work site.

#### **1.6.2 Testing Plan and Log**

As tests are performed, the QC Manager shall record on the "Testing Plan and Log" the date the test was conducted, the date the test results were forwarded to the Contracting Officer, any remarks and acknowledgement that an accredited or Contracting Officer approved testing laboratory was used. Attach a copy of the updated "Testing Plan and Log" to the last daily Contractor Quality Control Report of each month.

#### **1.6.3 As-Built Drawings**

The QC Manager is required to review the as-built drawings required by Section 01770, "Closeout Procedures," to ensure that as-built drawings are kept current on a daily basis and marked to show deviations which have been made from the Contract drawings. The QC Manager shall initial each deviation or revision. Upon completion of work, the QC Manager shall submit a certificate attesting to the accuracy of the as-built drawings prior to submission to the Contracting Officer.

#### **1.6.4 Report Forms**

The following forms, which are attached at the end of this section, are acceptable for providing the information required by the paragraph entitled "Documentation." While use of these specific formats are not required, any other format used shall contain the same information:

- a. Combined Contractor Production Report and Contractor Quality Control Report (1 sheet), with separate continuation sheet.

### **PART 2 PRODUCTS**

Not used.

### **PART 3 EXECUTION**

Not used.

## SECTION 01525

### SAFETY REQUIREMENTS 09/98

#### **PART 1 GENERAL**

##### **1.1 SUMMARY**

##### **1.2 REFERENCES**

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

#### CORPS OF ENGINEERS (COE)

COE EM-385-1-1 (1996) Safety and Health Requirements Manual

#### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 241 (1996) Safeguarding Construction, Alteration, and Demolition Operations

##### **1.3 DEFINITIONS**

- a. Confined Space. A space which by design has limited openings for entry and exit, unfavorable natural ventilation which could contain or produce dangerous air contaminants, and which is not intended for continuous employee occupancy, engulfment or any other recognized safety or health hazard. Confined spaces include, but are not limited to storage tanks, process vessels, pits, silos, vats, degreasers, reaction vessels, boilers, ventilation and exhaust ducts, sewers, tunnels, underground utility vaults, and pipelines.
- b. Recordable Occupational Injuries or Illness. An occupational injury or illnesses which result in serious injuries, lost workday cases, non-fatal cases or significant mishaps.
- c. Serious Injuries & Fatalities. Regardless of the time between the injury and death or the length of the illness; hospitalization of three or more employees; or property damage in excess of \$200,000.
- d. Lost Workday Cases. Injuries, other than fatalities, that result in lost workdays.
- e. Non-Fatal Cases. Cases without lost workdays which result in transfer to another job or termination of employment, or require medical treatment (other than first aid) or involve property damage in excess of \$10,000 but less than \$200,000 or involve: loss of consciousness or restriction of work or motion. This category also includes any diagnosed occupational illnesses which are reported to the employer but are not classified as fatalities or lost workday cases.

- f. Safety Officer. The superintendent or other qualified or competent person who is responsible for the on-site safety required for the project. The contractor quality control person cannot be the safety officer, even through the QC has safety inspection responsibilities as part of the QC duties.
- g. Significant Contractor Mishap. A contractor mishap which involves falls of 4 feet or more, electrical mishaps, confined space mishaps, diving mishaps, equipment mishaps, and fire mishaps which result in a lost time injury, or property damage of \$10,000 or more, but less than \$200,000; or when fire department or emergency medical treatment (EMT) assistance is required.
- h. Medical Treatment. Treatment administered by a physician or by registered professional personnel under the standing orders of a physician. Medical treatment does not include first aid treatment provided by a physician or registered personnel.
- i. First Aid. A one-time treatment, and follow-up visit for the purpose of observation, of minor scratches, cuts, burns, splinters, and so forth, which do not ordinarily require medical care, even though provided by a physician or registered professional personnel.

#### **1.4 SUBMITTALS**

Submit the following in accordance with Section 01330, "Submittal Procedures."

##### **1.4.1 SD-08 Statements**

- a. Accident prevention plan (APP) G

##### **1.4.1.1 Accident Prevention Plan (APP)**

Submit at least 15 calendar days prior to start of work at the job site, follow Appendix A of COE EM-385-1-1, make APP site specific, Notice To Proceed will be given after Government finds the APP acceptable.

##### **1.4.2 SD-18 Records**

- a. Daily Confined Space Entry Permit G.

Submit one copy of each permit attached to each Daily Production Report.

- b. Records G.

Submit reports as their incidence occurs, in accordance with the requirements of the paragraph entitled, "Reports."

## **1.5 QUALITY ASSURANCE**

### **1.5.1 Qualifications**

#### **a. Qualifications of Safety Officer:**

- (1) Ability to manage the on-site contractor safety program through appropriate management controls,
- (2) Ability to identify hazards and have the capability to expend resources necessary to abate the hazards.
- (3) Must have worked on similar types of projects that are equal to or exceed the scope of the project assigned with the same responsibilities.

#### **b. Qualifications of Qualified Person, Confined Space Entry. The qualified person shall be capable (by education and specialized training) of anticipating, recognizing, and evaluating employee exposure to hazardous substances or other unsafe conditions in a confined space. This person shall be capable of specifying necessary control and protective action to ensure worker safety.**

### **1.5.2 Meetings**

#### **1.5.2.1 Preconstruction Conference**

The safety officer shall attend the preconstruction conference required by Section 01310, "Administrative Requirements."

## **1.6 ACCIDENT PREVENTION PLAN (APP)**

Prepare the APP in accordance with the required and advisory provisions of COE EM-385-1-1 including Appendix A, "Minimum Basic Outline for Preparation of Accident Prevention Plan," and as modified herein. Include the associated AHA and other specific plans, programs and procedures listed on Pages A-3 and A-4 of COE EM-385-1-1, some of which are called out below.

### **1.6.1 Contents of the Accident Prevention Plan**

- a. Name and safety related qualifications of safety officer (including training and any certifications).
- b. Qualifications of competent and of qualified persons.
- c. Identify of the individual who will complete, accident investigations, reports and logs; and immediate notification of accidents to include subcontractors.
- d. Emergency response plan. Conform to COE EM-385-1-1, paragraph 01.E and include a map denoting the route to the nearest emergency care facility with emergency phone numbers. Contractor may be required to demonstrate emergency response.

- e. Confined Space Entry Plan. Identify the qualified person's name and qualifications, training, and experience. Delineate the qualified person's authority to direct work stoppage in the event of hazardous conditions. Include procedure for rescue by contractor personnel and the coordination with emergency responders.

#### **1.7 DUTIES OF THE SAFETY OFFICER**

- a. Ensure construction hazards are identified and corrected.
- b. Maintain applicable safety reference material on the job site.
- c. Maintain a log of safety inspections performed.
- d. Attend the pre-construction conference required by Section 01310, "Administrative Requirements."

#### **1.8 DISPLAY OF SAFETY INFORMATION**

Display the following information in clear view of the on-site construction personnel:

- a. Map denoting the route to the nearest emergency care facility with emergency phone numbers.
- b. Confined space entry permit.

#### **1.9 EMERGENCY MEDICAL TREATMENT**

Contractors will arrange for their own emergency medical treatment. Government has no responsibility to provide.

#### **1.10 Records**

##### **1.10.1 Reporting Reports**

For OSHA recordable accidents, the prime contractor will conduct a suitable investigation, and provide a written report to the Contracting Officer within 5 calendar days of the accident.

##### **1.10.2 Notification**

Notify Contracting Officer, within 4 hours, of any accident meeting the definition of OSHA recordable occupational injury or illness. Information shall include Contractor name; contract title; type of contract; name of activity, installation or location where mishap occurred; date and time of mishap; names of personnel injured; extent of property damage, if any; and brief description of mishap (to include type of construction equipment used, PPE used, etc.) In addition to OSHA reporting requirements, initial notification shall be made of any accident involving significant mishaps.



### **1.10.3 OSHA Citations and Violations**

Provide the Contracting Officer with a copy of each OSHA citation, OSHA report and Contractor response. Correct violations and citations promptly and provide written corrective actions to the Contracting Officer.

## **PART 2 PRODUCTS**

### **2.1 CONFINED SPACE SIGNAGE**

Provide permanent signs integral to or securely attached to access covers for new confined spaces. Signs wording: "DANGER--PERMIT REQUIRED CONFINED SPACE - DO NOT ENTER -" on bold letters a minimum of one inch in height and constructed to be clearly legible with all paint removed. The signal word "DANGER" and shall be red and readable from 5 feet.

## **PART 3 EXECUTION**

### **3.1 CONSTRUCTION**

Comply with COE EM-385-1-1, NFPA 241, the accident prevention plan, the activity hazard analysis and other related submittals and activity fire and safety regulations.

#### **3.1.1 Unforeseen Hazardous Material**

The design should have identified materials such as PCB, lead paint, and friable and nonfriable asbestos. If material, not indicated, that may be hazardous to human health upon disturbance during construction operations is encountered, stop that portion of work and notify the Contracting Officer immediately. Within 7 calendar days the Government will determine if the material is hazardous. If material is not hazardous or poses no danger, the Government will direct the Contractor to proceed without change. If material is hazardous and handling of the material is necessary to accomplish the work, the Government will issue a modification pursuant to "FAR 52.243-4, Changes" and "FAR 52.236-2, Differing Site Conditions."

### **3.2 PERSONNEL PROTECTION**

#### **3.2.1 Hazardous Noise**

Provide hazardous noise signs, and hearing protection, where ever equipment and work procedures produce sound-pressure levels greater than 85 dBA steady state or 140 dBA impulse, regardless of the duration of the exposure.

#### **3.2.2 Use of Material Handling Equipment**

- a. Cranes must be equipped with Load Indicating Devices, anti-two blocks devices, load, boom angle moment indicating indicators.
- b. Christmas-tree lifting (multiple rigged materials) is not allowed.

### **3.2.3 Work in Manholes**

Contractor shall provide mechanical ventilation for all work accomplished in manholes.

### **3.2.4 Work in Confined Spaces**

Comply with the requirements in Section 06.I of COE EM-385-1-1 and 29CFR-1910.146. Any potential for a hazard in the confined space requires a permit system to be used.

- a. Entry Procedures. Prohibit entry into a confined space by personnel for any purpose, including hot work, until the qualified person has conducted appropriate tests to ensure the confined or enclosed space is safe for the work intended and that all potential hazards are controlled or eliminated and documented. See Section 06.I.05 of COE EM-385-1-1 and 29CFR-1910.146 for entry procedures. All hazards pertaining to the space shall be reviewed with each employee.
- b. Forced air ventilation is required for all confined space entry operations and the minimum air exchange requirements must be maintained.
- c. Ensure the use of rescue and retrieval devices in confined spaces greater than 5 feet in depth. Conform to Sections 06.I.09, 06.I.10 and 06.I.11 of COE EM-385-1-1 and 29CFR-1910.146.
- d. Include training information for employees who will be involved as entrant attendants for the work. Conform to Section 06.I.06 of COE EM-385-1-1 and 29CFR-1910.146.
- e. Entry Permit. Use ENIFORM 5044-R or other form with the same minimum information for the Daily Confined Space Entry Permit, completed by the qualified person. Post the permit in a conspicuous place close to the confined space entrance.

## **3.3 ACCIDENT SCENE PRESERVATION**

For serious accidents, ensure the accident site is secured and evidence is protected remaining undisturbed until released by the Contracting Officer.

## **3.4 FIELD QUALITY CONTROL**

### **3.4.1 Inspections**

Include safety inspection as a part of the daily Quality Control inspections required in Section 01450, "Quality Control."

## SECTION 01770

### CLOSEOUT PROCEDURES 01/99

#### **PART 1 GENERAL**

##### **1.1 SUBMITTALS**

Submit the following in accordance with Section 01330, "Submittal Procedures."

##### **1.1.1 SD-18 Records**

- a. Record (As-built) Drawings G
- b. Record of Materials G
- c. Equipment/product warranty record G

##### **1.1.1.1 Record (As-Built) Drawings**

"FAC 5252.236-9310, Record (as-built) Drawings." Submit drawings with QC certification.

##### **1.1.1.2 Record of Materials**

Submit itemized list (Record of Materials) of all materials installed on this contract.

##### **1.1.1.3 Equipment/product Warranty Record**

Furnish to the Contracting Officer written warranties for equipment/products furnished under the contract, and prepare a complete listing of such equipment/products and duration of each warranty. Include also the point of contact for fulfillment of the warranty. The warranty period shall begin on the same date as project acceptance and shall continue for the full product warranty period. Execute the full list and deliver to the Contracting Officer prior to final acceptance of the facility.

Furnish with each warranty the name, address, and telephone number of the guarantor's representative nearest to the location where the equipment and appliances are installed. The guarantor's representative, upon request of the station representative, shall honor the warranty during the warranty period, and shall provide the services prescribed by the terms of the warranty.

##### **1.2 CLEANUP**

Leave premises "broom clean." Remove waste and surplus materials, rubbish and construction facilities from the site.

#### **PART 2 PRODUCTS**

Not used.

#### **PART 3 EXECUTION**

Not used.

## SECTION 02510

### WATER DISTRIBUTION

#### **PART 1 GENERAL**

##### **1.1 REFERENCES**

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

##### AMERICAN WATER WORKS ASSOCIATION (AWWA)

AWWA C509	(1994) Resilient-Seated Gate Valves for Water and Sewerage Systems
AWWA C600	(1993) Installation of Ductile-Iron Water Mains and Their Appurtenances
AWWA C651	(1992) Disinfecting Water Mains

##### **1.2 DESIGN REQUIREMENTS**

###### **1.2.1 Water Service Lines**

Provide water service lines as indicated on the drawings. Water service lines shall be Ductile-iron. Provide water service line appurtenances as specified and where indicated.

##### **1.3 SUBMITTALS**

Submit the following in accordance with Section 01330, "Submittal Procedures."

###### **1.3.1 SD-02 Manufacturer's Catalog Data**

- a. Water service line materials G

Submit manufacturer's standard drawings or catalog cuts. Include information concerning gaskets with submittal for joints and couplings.

###### **1.3.2 SD-13 Certificates**

- a. Water service materials lining and coating G

###### **1.3.2.1 Water service materials lining and coating**

Certificates shall attest that tests set forth in each applicable referenced publication have been performed, whether specified in that publication to be mandatory or otherwise and that production control tests have been performed at the intervals or frequency specified in the publication. Other tests shall have been performed within 3 years of the date of submittal of certificates on the same type, class, grade, and size of material as is being provided for the project.

### **1.3.3 SD-04 Drawings**

#### **a. Water Meter Vault Shop Drawings G**

##### **1.3.3.1 Water Meter vault Shop Drawings**

Prior to fabrication submit detailed drawings of all proposed piping to be installed in the water meter vault. The drawings should be to scale and indicate the exact location and dimensions of the existing piping that will remain and the exact location and dimensions of the proposed piping that will be installed between and connected to the existing piping.

### **1.4 DELIVERY, STORAGE, AND HANDLING**

#### **1.4.1 Delivery and Storage**

Inspect materials delivered to site for damage. Unload and store with minimum handling. Store materials on site in enclosures or under protective covering. Store rubber gaskets under cover out of direct sunlight. Do not store materials directly on the ground. Keep inside of pipes, fittings, valves free of dirt and debris.

#### **1.4.2 Handling**

Handle pipe, fittings, valves, hydrants, and other accessories in a manner to ensure delivery to the trench in sound undamaged condition. Take special care to avoid injury to coatings and linings on pipe and fittings; make satisfactory repairs if coatings or linings are damaged. Carry, do not drag pipe along the ground. Store rubber gaskets that are not to be installed immediately, under cover out of direct sunlight.

## **PART 2 PRODUCTS**

### **2.1 Water service line Materials**

#### **2.1.1 Water Service Line Materials**

##### **2.1.1.1 Ductile-Iron Piping**

- a. Flange Pipe: Flange pipe shall be made with a minimum class 53 thickness ductile iron pipe in accordance with AWWA/ANSI C151/A21.51. Flanges shall be screwed on, faced and drilled in accordance with AWWA/ANSI C110/A21.10 and AWWA/ANSI C115/21.15. Flanges shall be ductile iron and be "high hub style" to cover all pipe threads. Standard interior coating shall be double cement lined per ANSI/AWWA A21.4/C104. Exterior coating shall be bituminous, minimum 6 mils. Flange pipe fabricator shall be a member of the National Association of Pipe Fabricators and be U.L. Listed. Flange pipe shall be by Quality Water Products of South Barre, MA or approved equal.

- b. Flange Fittings: Flange fittings shall be ductile iron and manufactured in accordance with ANSI/AWWA C110/A21.10. All flanges manufactured to AWWA C110 standards shall conform to the facing of ANSI specification B16.1 class 125. Fittings shall be listed by Underwriter Laboratories for fire protection service. Fittings shall be cement lined and seal coated in accordance to ANSI/AWWA C104/A21.4. Exterior coating shall be bituminous, minimum 6 mils. Fittings shall be by Metal Fit Inc. or equal and be North American made.
- c. Flange Bolts: Flange bolts shall be ASTM A307 grade B and made to the standards of ASNI B18.2.1
- d. Flange Gaskets: Flange gaskets shall be full faced furnished of high quality black, molded SBR rubber with required properties per ANSI/AWWA C111/A21.11. Gaskets shall be American Toruseal flange gasket or approved equal.

#### **2.1.2 Valves, and Other Water Service line Accessories**

##### **2.1.2.1 Gate Valves in Valve Pit(s)**

Gate Valves shall meet or exceed the requirements of AWWA C509. Gate valves shall be OS&Y unless restricted by location then, NRS will be furnished. Wedge shall be constructed of ductile iron, fully encapsulated in synthetic rubber per AWWA C-509. All exterior bonnet bolts shall be 18-8 stainless steel. Gate valves shall be resilient wedge and shall be American Flow Control Series 2500 or approved equal. Gate valve on the fire protection line shall be locked in the open position and three copies of the key shall be handed over to Volpe Center Facility personnel.

##### **2.1.2.2 Flexible Couplings**

Flexible couplings shall be furnished with ductile iron center sleeve and end rings. Gaskets shall be SBR for water and sewer service. Couplings shall be furnished with fusion bonded epoxy and 304 stainless steel trackhead bolts and nuts. Flexible couplings shall be Romac 501 Transition couplings or approved equal.

### **PART 3 EXECUTION**

#### **3.1 INSTALLATION OF PIPELINES**

##### **3.1.1 General Requirements for Installation of Pipelines**

These requirements shall apply to all pipeline Installation except where specific exception is made in the "Special Requirements." paragraphs.

#### 3.1.1.1 Pipe Laying and Jointing

Remove fins and burrs from pipe and fittings. Before placing in position, clean pipe, fittings, valves, and accessories, and maintain in a clean condition. Provide proper facilities for lowering sections of pipe into the water meter vault. Do not under any circumstances drop or dump pipe, fittings, valves, or any other water line material into the water meter pit..Work pipe into place without springing or forcing. Replace by one of the proper length any pipe or fitting that does not allow sufficient space for proper installation of jointing material. Provide anchors and supports where indicated and where necessary for fastening work into place. Make proper provision for expansion and contraction of pipelines. Keep water meter pit free of water until joints have been properly made. At the end of each work day, close open ends of pipe temporarily with wood blocks or bulkheads. Do not lay pipe when conditions in the vault or weather prevent installation.

#### 3.1.2 Special Requirements for Installation of Water Mains

##### 3.1.2.1 Installation of Ductile-Iron Piping

Unless otherwise specified, install pipe and fittings in accordance with paragraph entitled "General Requirements for Installation of Pipelines" and with the requirements of AWWA C600 for pipe installation, joint assembly, valve-and-fitting installation, and thrust restraint.

- a. Jointing: Make flanged joints with the gaskets, bolts, and nuts specified for this type joint. Make flanged joints up tight; avoid undue strain on flanges, fittings, valves, and other equipment and accessories. Align bolt holes for each flanged joint. Use full size bolts for the bolt holes; use of undersized bolts to make up for misalignment of bolt holes or for any other purpose will not be permitted. Do not allow adjoining flange faces to be out of parallel to such degree that the flanged joint cannot be made watertight without overstraining the flange. When flanged pipe or fitting has dimensions that do not allow the making of a proper flanged joint as specified, replace it by one of proper dimensions. Assemble joints made with flexible couplings in accordance with the recommendations of the coupling manufacturer.

##### 3.1.2.2 Installation of Valves

- a. Installation of Valves: Install gate valves, AWWA C509, in accordance with the requirements of AWWA C600 for valve-and-fitting installation and with the recommendations of the Appendix ("Installation, Operation, and Maintenance of Gate Valves") to AWWA C509. Make and assemble joints to gate valves as specified for making and assembling the same type joints between pipe and fittings.

### **3.1.3 Disinfection**

Disinfect new water piping and existing water piping affected by Contractor's operations in accordance with AWWA C651. Fill piping systems with solution containing minimum of 50 parts per million of available chlorine and allow solution to stand for minimum of 24 hours. Flush solution from the systems with domestic water until maximum residual chlorine content is within the range of 0.2 and 0.5 parts per million, or the residual chlorine content of domestic water supply. Obtain at least two consecutive satisfactory bacteriological samples from new water piping, analyze by a certified laboratory, and submit the results prior to the new water piping being placed into service. Disinfection of systems supplying nonpotable water is not required.

## **3.2 FIELD QUALITY CONTROL**

### **3.2.1 Field Tests and Inspections**

The Contracting Officer will conduct field inspections and witness field tests specified in this section. The Contractor shall perform field tests, and provide labor, equipment, and incidentals required for testing except that water and electric power needed for field tests will be furnished by the Government. The Contractor shall produce evidence, when required, that any item of work has been constructed in accordance with the drawings and specifications.

### **3.2.2 Testing Procedure**

Test ductile-iron water lines in accordance with the requirements of AWWA C600 for hydrostatic testing. No leakage will be allowed at joints.



**Request for Quotation (RFQ) No. DTRS57-00-Q-80026**  
**Attachment No. 2**

**52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)** - This RFQ contract incorporates the following clauses by reference with the same force and effect as is they were given in full text. Upon request the Contract Officer will make their full text available. Also, the full text of a clause may be accessed electronically at the following address:

**<http://farsite.hill.af.mil/vffar.htm>**

**I. Federal Acquisition Regulation (FAR Clauses incorporated by reference)**

52.203-3	Gratuities	APR 1984
52.222-3	Convict Labor	AUG 1996
52.232-1	Payments	APR 1994
52.232-8	Discounts for Prompt Payment	MAY 1997
52.232-23	Assignment of Claims	JAN 1986
52.232-25	Prompt Payment	JUN 1997
52.232-34	Payment by Electronic Funds Transfer – Other than Central Contractor Registration (b) Date for Submission of EFT Information:	MAY 1999
<hr/>		
52.233-1	Disputes	DEC 1998
52.233-3	Protest After Award	AUG 1996
52.242-15	Stop Work Order	AUG 1989
52.243-1	Changes – Fixed Price	AUG 1987

The following clauses marked with an “X” also apply to this solicitation/contract:

**OPTIONS**

<input type="checkbox"/>	FAR 52.217-3	Evaluation Exclusive of Options	APR 1984
<input type="checkbox"/>	FAR 52.217-4	Evaluation of Options Exercised at Time of Contract Award	JUN 1988
<input type="checkbox"/>	FAR 52.217-5	Evaluation of Options	JUL 1990
<input type="checkbox"/>	FAR 52.217-6	Option for Increased Quantity	MAR 1989
<input type="checkbox"/>	FAR 52.217-8	Option for Extend Services	AUG 1989
<input type="checkbox"/>	FAR 52.217-9	Option for Extend the Term for the Contract	MAR 1989

## SERVICES

<input type="checkbox"/>	FAR 52.222-41	Service Contract Act of 1965, as Amended	MAY 1989
<input type="checkbox"/>	FAR 52.222-42	Statement of Equivalent Rates for Federal Hires (over \$2,500)	MAY 1989
<input type="checkbox"/>	FAR 52.222-47	SCA Minimum Wages and Fringe Benefits Applicable to Successor Contract Pursuant to Predecessor Contractor Collective Bargaining Agreements (CBA)	MAY 1989
<input type="checkbox"/>	FAR 52.222-48	Exemption from Application of Service Contract Act Provisions for Contracts for Maintenance, Calibration, and/or Repair of Certain Information Technology, Scientific and Medical and/or Office and Business Equipment – Contractor Certification	AUG 1996
<input checked="" type="checkbox"/>	FAR 52.249-1	Termination for Convenience of the Government (Fixed-Price) (Short-Form)	APR 1984

## SUPPLIES

<input type="checkbox"/>	FAR 52.211-16	Variation in Quantity _____ % Increase, _____ % Decrease	APR 1984
<input type="checkbox"/>	FAR 52.225-3	Buy American Act-Supplies	JAN 1994
<input type="checkbox"/>	FAR 52.246-16	Responsibility for Supplies	APR 1984
<input checked="" type="checkbox"/>	FAR 52.249-1	Termination for Convenience of the Government (Fixed-Price)(Short Form)	APR 1984

## OTHER CLAUSES

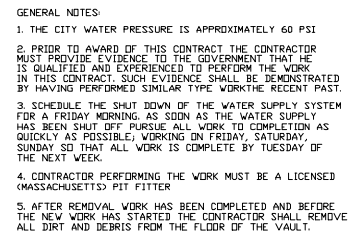
<input checked="" type="checkbox"/>	FAR 52.204-3	Taxpayer Identification TIN:_____ (Offeror Provides)	OCT 1998
<input type="checkbox"/>	FAR 52.204-4	Printing/Copying Double Sided on Recycle Paper	JUN 1996
<input type="checkbox"/>	FAR 52.207-4	Economic Purchase Quantity—Supplies	AUG 1987
<input type="checkbox"/>	FAR 52.207-5	Option to Purchase Equipment	FEB 1995
<input type="checkbox"/>	FAR 52.208-4	Vehicle Lease Payments	APR 1984
<input type="checkbox"/>	FAR 52.208-5	Condition of Leased Vehicles	APR 1984
<input type="checkbox"/>	FAR 52.208-6	Marking of Leased Vehicles	APR 1984
<input type="checkbox"/>	FAR 52.208-7	Tagging of Leased Vehicles	MAY 1986
<input type="checkbox"/>	FAR 52.213-1	Fast Payment Procedure	FEB 1998
<input checked="" type="checkbox"/>	FAR 52.213-2	Invoices	AUG 1984
<input checked="" type="checkbox"/>	FAR 52.213-3	Notice to Supplier	APR 1984

<input type="checkbox"/>	FAR 52.222-20	Walsh-Healey Public Contracts Act (over \$10,000)	DEC 1996
<input type="checkbox"/>	FAR 52.222-21	Prohibition of Segregated Facilities (over \$10,000)	FEB 1999
<input checked="" type="checkbox"/>	FAR 52.222-26	Equal Opportunity (over \$10,000)	FEB 1999
<input checked="" type="checkbox"/>	FAR 52.222-35	Affirmative Action for Disabled Veterans and Veterans of the Vietnam ERA (over \$10,000)	APR 1998
<input checked="" type="checkbox"/>	FAR 52.222-37	Employment Reports on Special Disabled Veterans and Veterans of the Vietnam ERA (over \$10,000)	JAN 1999
<input type="checkbox"/>	FAR 52.223-5	Pollution Prevention and Right-to-Know Information	APR 1998
<input checked="" type="checkbox"/>	FAR 52.223-6	Drug Free Workplace	JAN 1997
<input type="checkbox"/>	FAR 52.232-16	Progress Payments	JUL 1991
<input type="checkbox"/>	FAR 52.232-18	Availability of Funds	APR 1984
<input type="checkbox"/>	FAR 52.245-2	Government Property (Fixed-Price Contracts)	DEC 1989
<input type="checkbox"/>	FAR 52.245-4	Government-Furnished Property (Short-Form)	APR 1984
<input type="checkbox"/>	FAR 52.246-1	Contractor Inspection Requirements	APR 1984
<input type="checkbox"/>	FAR 52.247-29	F.O.B. Origin	JUN 1988
<input type="checkbox"/>	FAR 52.247-34	F.O.B. Destination	NOV 1991
<input type="checkbox"/>	FAR 52.247-35	F.O.B. Destination Within Consignee's Premises	APR 1984
<input checked="" type="checkbox"/>	FAR 52.249-8	Default (Construction)	APR 1984









VOLPE CENTER PLAN  
SCALE: 1" = 60'

[illegible]